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1 ELECTRONIC WATERMARKING METHOD AND SYSTEM

2 Abstract

3 The present invention provides a watermarking method,  
4 apparatus and system for embedding additive information  
5 in digital data, in which one frame is defined as  
6 including samples extracted from digital data and a  
7 current frame is defined as a frame that is overlapped by  
8 samples of a preceding frame. Included are: a  
9 transformation unit, for multiplying a frame extracted  
10 from digital data by a window function and performing a  
11 Fourier transform on the digital data; an embedding unit,  
12 for employing bit information and a frequency band to  
13 change the amplitude of the frequency component in the  
14 digital data; a transformation unit, for performing an  
15 inverse Fourier transform to return the frequency  
16 component whose amplitude has been changed by the  
17 frequency domain embedding unit; and a frame generator,  
18 for multiplying the time domain signal and superimposing  
19 overlapped frames to generate a frame wherein the  
20 additive information is embedded.

21 [Selected Drawing] Fig. 1